West Lake Landfill Operable Unit 1 Status Update



U.S. Environmental Protection Agency Region 7

January 2013

Agenda

History of site decisions

Recent groundwater results

Recent radiation screening results

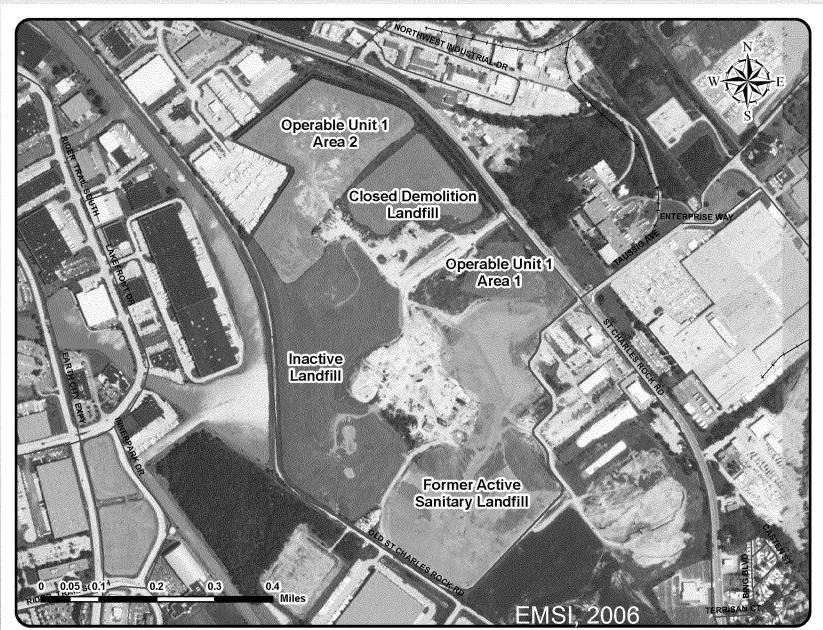
Next steps

• Q & A



WLLFOIA4312 - 015 - 0175317

Site Boundaries



Timeline

Great **EPA** Rivers Great **Proposed** letter to letter Rivers **SFS** Plan Lisa to letter to **PRPs** issued Jackson complete Mathy Stanislaus June April Dec. 9, Jan. Dec. 2006 2009 2009 2010 2011 May May Dec. 17, March 2008 2009 2009 2010 Record **EPA PRP EPA** of HQ letter to HQ **EPA** Decision memo letter signed to to Great Region Rivers 5

National Remedy Review Board (NRRB)

- EPA Region 7 held early consultation on the Supplemental Feasibility Study (SFS) with the NRRB in February-March 2012.
- NRRB recommended additional technical evaluations.
- The PRPs agreed to do the additional evaluations requested by the NRRB. Work began in July 2012 and is ongoing.

2012 Groundwater Sampling

- 75 monitoring wells sampled across the site
- Radium detected in 25 wells at levels above its maximum contaminant level (MCL)
- Uranium did not exceed its MCL in any wells
- Dissolved thorium less than 2.1 pCi/L in all wells; there is no MCL for thorium
- Recent USGS studies suggest that radium may be naturally elevated in the area groundwater

EPA radiation screening results

• EPA screened 68 monitoring wells in October

• Four wells inside OU-1 cells did show elevated gamma levels indicating radiologically-impacted material (RIM)

 Background gamma emissions from shale layers in bedrock observed at low levels

	PZ-113-SS	\$-6	F4	D-3	5-10	F11	D-12	PZ-102-SS
Depth, Ft	Counts Per Minute	CPM	CPM	CPM	CPM	CPM	CPM	CPM
0	470 490	86.63	670 670	936 670	1370	9500 ·		940
	200	1190			610	500	583	510
	693 770	1690 3490	430 780	910 2590	520 1000	Section 2011	523 7.73	640 60
5	760	9070	1750	4860	1240	2970	1990	776
	980	14100	2810 4120	3710 3460	1590 1290	56.20 4390	2360 2300	
	450	35190	9900	4970	1.4213	1800		1670
10	700 910	2020	34750 33630	\$1120 15460	1580	1310	1040	1920 1910
	870	2110	8600	27920 16630	1113	49.95	7.76	1590 1220
	645 760	1400	2.903	22.5	1140 900	1373	1150	1076
.au 9897	15	1000	1136 990	1100	1050 1050	1100	1040 1960	1670 1820
15	620	7% 930	1050	1000		\$102 750	1000	1920
	7.10	104	1210		1390	900	1020	1810 1770
		40'90	745 920	E20 730	A STANCE OF	1040	1170 1090	1000
20	770 950 1028			730	1230 1570	31.3	1090	1490 1290
	730	1210	1040	560	1910	1.146.0	1150	12.90
	970 660	1400	570 1040	730	1950 2090	1220	1935	1240
25	1.000	1160	1160	1000	2060	1230 1360	* 0000	1420
	780 780	1330	920 860	760 690	1910	2170	1640	1630 1630
:		1660	080	1200	1800	2070	1560	1580
20		700	325 N	1415	1630	2100 2190	1530 1450	1300
	680	250	W. 960	16.40	1670	77.3	1833	1100
	680 530	520 530 550	990 1070	17.40 1380	1190		1423 1593	200 730
20%-20km			1000	1620	18.20	17.00	E 1600	1070
	600 450	1700	920 740	1240 1150	1120	1502	1580 1580	1170
		680 486	1130 1460	1110		1340 1440	15/03 20/40	1710 1560
	520	584	1110	910	1250	1000	7673	1750
40	44.3 520		980 980	32	1170 1210	1743 1560	1530	1970 2010
	650	6.00	1250	1160	1240	7650	1752363	1770
		530	1060	1060 1070	1640 6001	1760 1690	1590	1790 1710
45	423		W 460	1000	1040	1470	1610	1740
			1110 1000	290	970	1360	12.2	1280 1080
	380 530		#50 1080	1040	1080 1990	1420	17720 1650	1000 1000
50			840	10 34.0	1220	1220	1570	1240
	350 530		910 1040	800 820	1030	***	1450	1100
	555		1160	900	94.03	1440	1750	1777
55	630 440		910 950	1000	850	1100	#80 970	149G 1120
Walles	560		1080	1020	7.44	860	0.03	1070
			940 930	1150			112	Ra (6.7 610)
			(16					

EPA surface radiation screening

Surface gamma scans are planned for 2013

 Aerial survey method may be used due to very heavy vegetation cover

Results may help confirm extent of RIM

Next Steps

- PRPs are conducting additional evaluations.
- SFS will be amended to include additional evaluations.
- EPA Region 7 will formally present amended SFS to the NRRB.
- New proposed plan for ROD amendment will be released for public comment.

Community Assistance

Community advisory group

Technical assistance grants

 Technical Assistance for Superfund Communities (TASC)

Contacts

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